WHAT IS CLAIMED IS:

- 1. A composite structure, comprising:
 - a. a foam sheet comprising polyolefin; and
- b. a coating disposed on at least one surface of said polyolefin foam sheet, said coating comprising at least one member selected from ethylene/propylene rubber, homogeneous ethylene/alpha-olefin copolymer, ethylene/acrylic acid copolymer, ethylene/vinyl acetate copolymer, and blends of the foregoing,

whereby, said coating is capable of bonding said polyolefin foam sheet to a second foam sheet having a different chemical composition than said polyolefin foam sheet at a bond strength of at least about 4 lb_f /inch.

- 2. The composite structure of claim 1, wherein said bond strength is at least about $4.5 \, lb_f/inch$.
- 3. The composite structure of claim 1, wherein said polyolefin foam sheet comprises polyethylene homopolymer or copolymer and said second foam sheet comprises polypropylene homopolymer or copolymer.
- 4. The composite structure of claim 1, wherein said polyolefin foam sheet comprises polypropylene homopolymer or copolymer and said second foam sheet comprises polyethylene homopolymer or copolymer.
- 25 5. The composite structure of claim 1, wherein said coating comprises ethylene/propylene rubber or ethylene/vinyl acetate copolymer.
 - 6. The composite structure of claim 1, wherein said coating is substantially solventless.

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 8. The composite structure of claim 1, wherein said polyolefin foam sheet comprises polypropylene homopolymer or copolymer having a density ranging from about 0.5 to about 10 pounds/ft³.

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9. The composite structure of claim 1, further including a second foam sheet comprising a material of a different chemical composition than said polyolefin foam sheet and bonded by said coating to said polyolefin foam sheet at a bond strength of at least about $4 \, \text{lb}_f/\text{inch}$.

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10. The composite structure of claim 9, wherein said polyolefin foam sheet comprises polyethylene homopolymer or copolymer and said second foam sheet comprises polypropylene homopolymer or copolymer.

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11. The composite structure of claim 9, wherein said polyolefin foam sheet comprises polypropylene homopolymer or copolymer and said second foam sheet comprises polyethylene homopolymer or copolymer.

12. A multilayer composite structure, comprising:

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a. a first foam layer comprising polyethylene homopolymer or copolymer.

b. a second foam layer comprising polypropylene homopolymer or copolymer; and

/ c. a coating disposed between and bonding said first and second foam layers together at a bond strength of at least about $4 \, lb_f$ /inch, said

coating comprising at least one member selected from ethylene/propylene rubber, homogeneous ethylene/alpha-olefin copolymer, ethylene/acrylic acid copolymer, ethylene/vinyl acetate copolymer, and blends of the foregoing.

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13. The composite structure of claim 12, wherein said coating comprises ethylene/propylene rubber or ethylene/vinyl acetate copolymer.

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14. The composite structure of claim 12, wherein said coating is substantially solventless.

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15. The composite structure of claim 12, wherein said first foam layer comprises low density polyethylene.

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16. The composite structure of claim 12, wherein said first foam layer has a density ranging from about 0.4 to about 15 pounds/ft³.

17. The composite structure of claim 12, wherein said second foam layer comprises polypropylene homopolymer.

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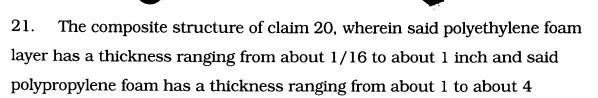
The composite structure of claim 12, wherein said second foam layer 18. has a density ranging from about 0.5 to about 10 pounds/ft³.

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19. The composite structure of claim 12, wherein the bond strength between said first and second foam layers is at least about 4.5 lb_f/inch.

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The composite structure of claim 12, wherein said structure is in the form of a bodyboard flotation article.



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- 22. A method for making a composite structure, comprising:
 - a. providing a foam sheet comprising polyolefin; and
- b. coating at least one surface of said polyolefin foam sheet, said coating comprising at least one member selected from ethylene/propylene rubber, homogeneous ethylene/alpha-olefin copolymer, ethylene/acrylic acid copolymer, ethylene/vinyl acetate copolymer, and blends of the foregoing,

whereby, said coating is capable of bonding said polyolefin foam sheet to a second foam sheet having a different chemical composition than said polyolefin foam sheet at a bond/strength of at least about $4 \, \mathrm{lb_f/inch.}$

- 23. The method of claim 22, wherein said bond strength is at least about 4.5 lb_f/inch.
- 20 24. The method of claim 22, wherein said polyolefin foam sheet comprises polyethylene homopolymer or copolymer and said second foam sheet comprises polypropylene homopolymer or copolymer.
- 25. The method of claim 22, wherein said polyolefin foam sheet
 comprises polypropylene homopolymer or copolymer and said second foam sheet comprises polyethylene homopolymer or copolymer.
 - 26. The method of claim 22, wherein said coating comprises ethylene/propylene rubber or ethylene/vinyl acetate copolymer.

27. The method of claim 22, wherein said polyolefin foam sheet comprises polyethylene homopolymer or copolymer having a density ranging from about 0.4 to about 15 pounds/ft³.

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28. The method of claim 22, wherein said polyolefin foam sheet comprises polypropylene homopolymer or copolymer having a density ranging from about 0.5 to about 10 pounds/ft³.

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29. The method of claim 22, wherein said coating is substantially solventless.

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30. The method of claim 22, further including the step of bonding a second foam sheet to said polyolefin foam sheet via said coating, said second foam sheet comprising a material of a different chemical composition than said polyolefin foam sheet.

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31. The method of claim 30, wherein said polyolefin foam sheet comprises polyethylene homopolymer or copolymer and said second foam sheet comprises polypropylene homopolymer or copolymer.

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32. The method of claim 30, wherein said polyolefin foam sheet comprises polypropylene homopolymer or copolymer and said second foam sheet comprises polyethylene homopolymer or copolymer.

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